

Attorney Docket: 101215-52

IN THE ABSTRACT

Substitute the present abstract of record, with the **REPLACEMENT ABSTRACT** below.

SummaryAbstract

~~The invention as presented describes aA method and apparatus devices for a one-dimensional and a two-dimensional electrophoresis is disclosed. separation of biomolecules in gels by means of electrophoresis in an electrophoresis apparatus and serve in particular the separation of, for example, proteins, glycoproteins, lipoproteins, nucleic acids or cell complexes. A first deviceOne embodiment~~ according to the invention is characterised, in that an electrophoresis combination chamber (1) has a core (2) with cooling elements (3), where the cooling elements (3) are arranged under the gel chambers (6,7) and buffer vessels (8 and 21) formed on both sides of the core (2) by inner plates (4) and outer plates (5) in combination with removable or switchable isolating elements. ~~A-In a second embodiment for one or two dimension separation of biomolecules or other substance mixtures in the gels are arranged horizontally and above each other by means of electrophoresis indicates a rear wall plate and a cover plate where, between rear wall plate and cover plate, at least two deflection elements are arranged for guiding isolating elements.~~

Furthermore, a method for the one dimension separation as well as the two dimension separation and the recipe of specific gels are described.